

## Partnership for Carbon Accounting Financials

Measuring what matters: A deep dive into calculating financed emissions

November 8th 2023



### Agenda



THE VALUE OF MEASURING FINANCED EMISSIONS



INTRODUCTION TO PCAF



PCAF DRIVING TANGIBLE BUSINESS OUTCOMES



**GHG ACCOUNTING IMPLEMENTATION** 



DEEP DIVE INTO INSURANCE ASSOCIATED EMISSIONS



**BENEFITS OF PCAF** 









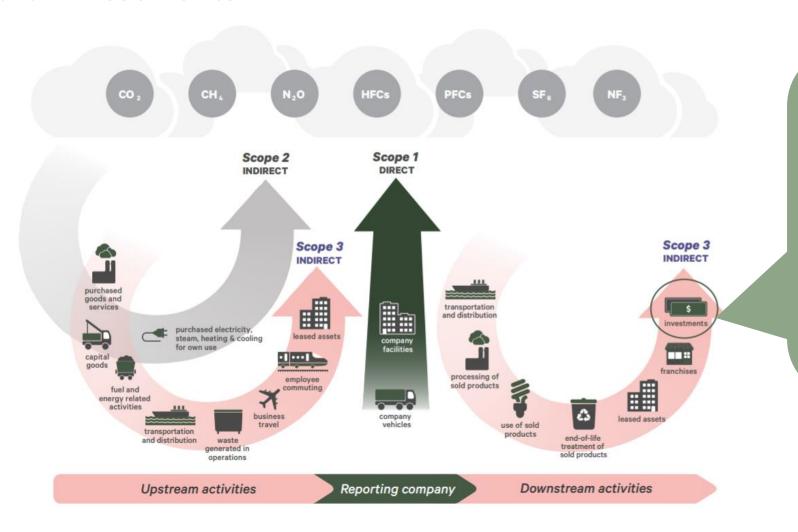
### Intro to GHG accounting for financial institutions

Greenhouse gas (GHG) accounting for financial institutions is the annual accounting and disclosure of GHG emissions associated with loans and investments at a fixed point in time in line with financial accounting periods.

## What gets measured gets managed.



## Financial institutions indirectly create a climate impact through their loans and investments

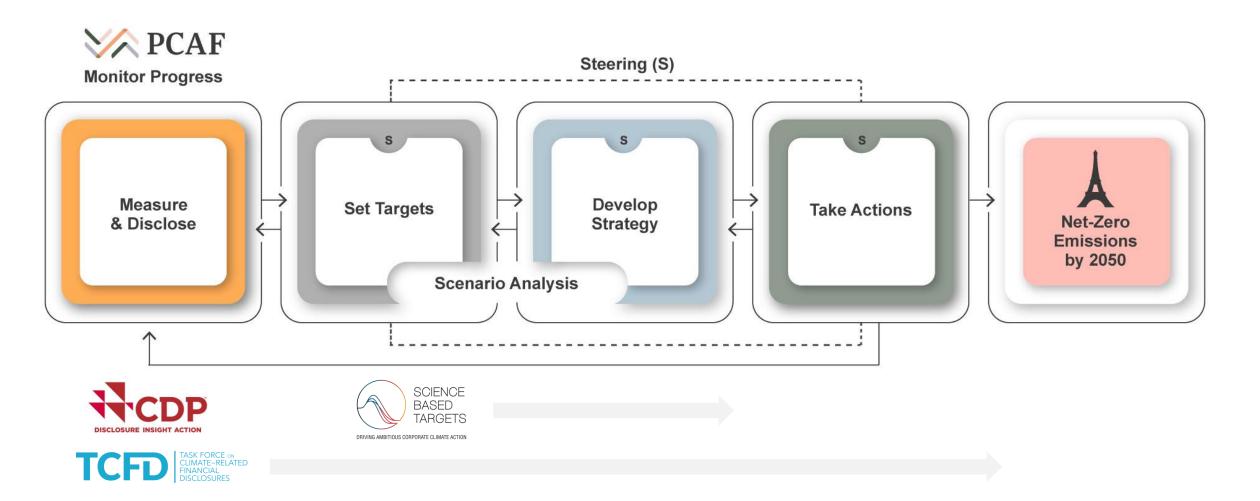


In alignment with the GHG Protocol, PCAF enables financial institutions to measure and report Scope 3, Category 15 emissions.

Portfolio emissions of global financial institutions are on average **750x larger** than direct emissions.<sup>1</sup>



## GHG accounting exists as a discrete action in a sequence that allows banks and investors to measure, disclose and align



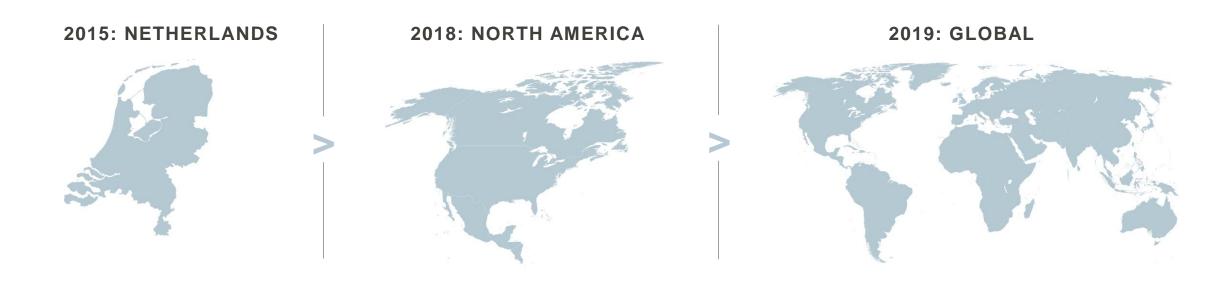








## PCAF: An industry-led initiative to standardize the measurement and disclosure of emissions associated with financial activities



**GLOBAL STEERING COMMITTEE** 











Nordea





## 448 financial institutions in 69 countries are part of PCAF

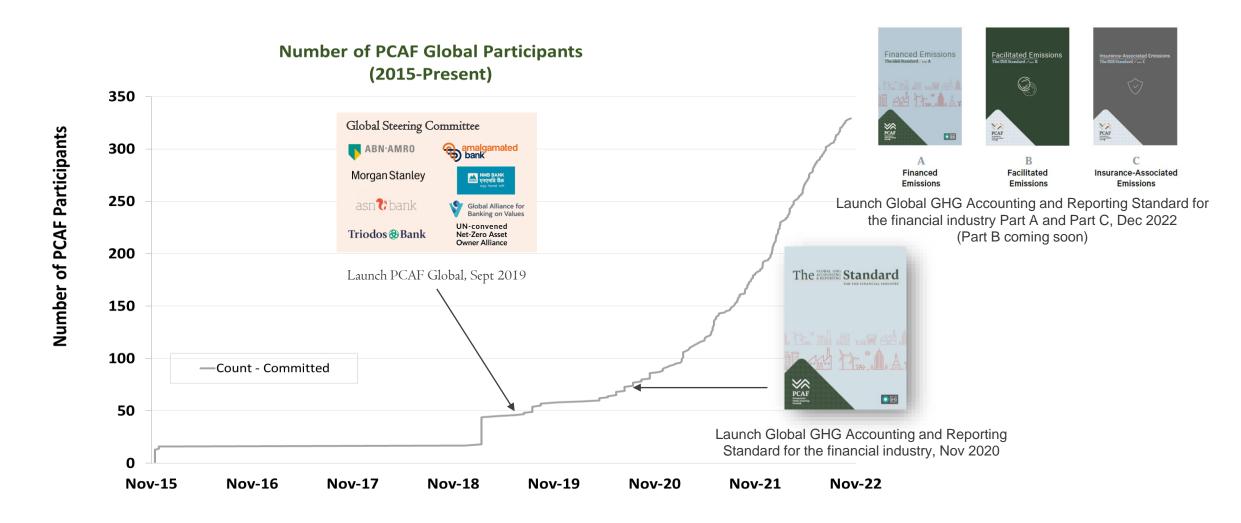


CHECK THE FULL LIST OF PCAF SIGNATORIES HERE

DOWNLOAD THE GLOBAL GHG ACCOUNTING AND REPORTING STANDARD HERE



## PCAF's goal is to further develop the Global GHG Accounting and Reporting Standard for the Financial Industry and reach +1,000 signatories by 2025

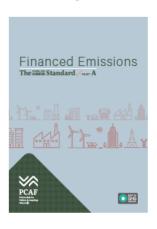




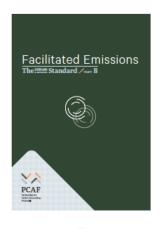
# The standard contains three distinct parts: Financed Emissions, Facilitated Emissions and Insurance-Associated Emissions

The Standard is divided into three parts

The ACCOUNTING Standard Steporting Standard



A Financed Emissions



B Facilitated Emissions



Insurance-Associated Emissions

Each part of the Standard focuses on a different financial activity

#### •

#### Part A - Financed Emissions

- Provides methodological guidance to measure and disclose GHG emissions associated with seven asset classes as well as guidance on emission removals.
- The **seven asset classes** are: 1) listed equity and corporate bonds, 2) business loans and unlisted equity, 3) project finance, 4) commercial real estate, 5) mortgages, 6) motor vehicle loans, and 7) sovereign debt.

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#### Part B – Facilitated Emissions

- Provides methodological guidance for measuring and reporting the GHG emissions associated with the capital markets transactions
- To be launched in 2023.



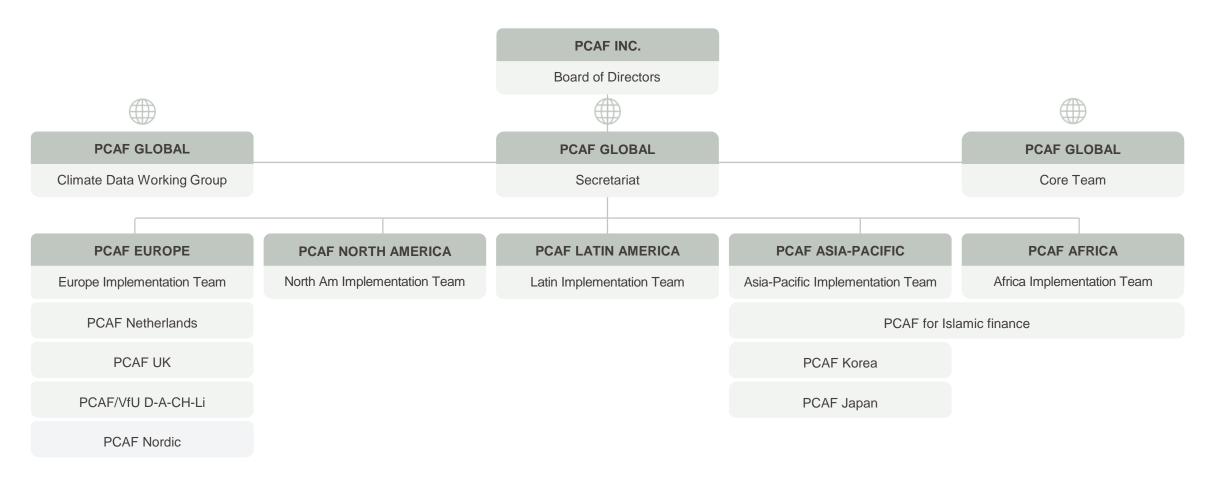
#### Part C - Insurance-Associated Emissions

- Provides methodological guidance for measuring and reporting the GHG emissions associated with re/insurance underwriting for two segments.
- The two segments are: 1) commercial lines, and 2) personal motor lines.





## PCAF drives implementation through regional and national collaborations



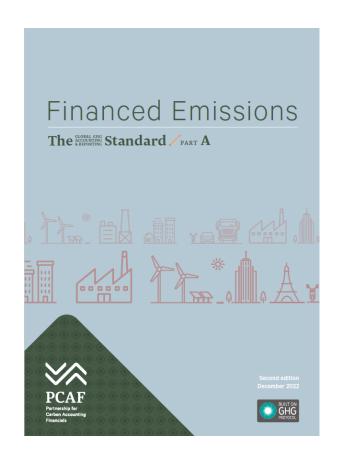
Additional national chapters can be created upon demand.

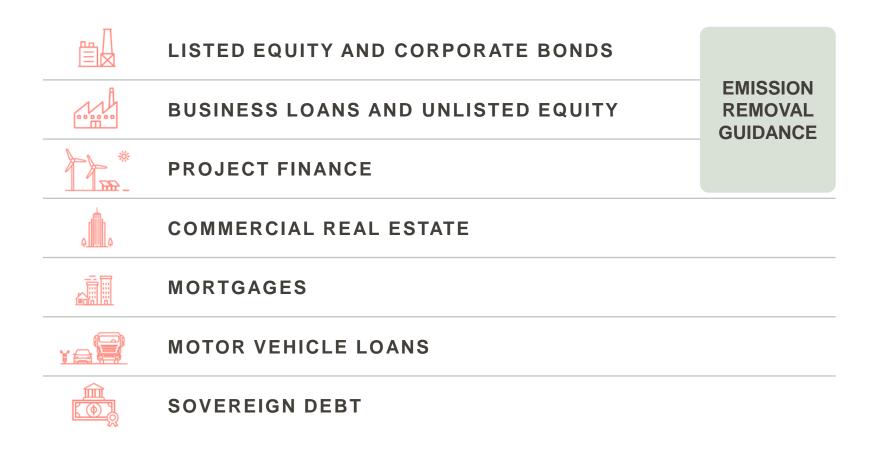




## Ready to use – second edition of the PCAF Standar<sup>A</sup> Financed Emissions

CLICK HERE TO DOWNLOAD THE PCAF STANDARD









## Many regulations and legislations already require GHG accounting and reporting (1/2)

REGULATIONS		REPORTING REQUIREMENT			
		SCOPE 1	SCOPE 2	SCOPE 3	VOLUNTARY/ MANDATORY
**  **  **  **  **  **  **  **  **  **	EU Taxonomy Regulation	<b>/</b>	<b>✓</b>	<b>✓</b>	<b>Mandatory</b> for public interest entities (PIEs)* with 500+ employees
Eropain Commission	Sustainable Finance Disclosure Regulation (SFDR)	<b>/</b>	<b>✓</b>	<b>✓</b>	<b>Mandatory</b> for all FMPs and Pas in the EU with 500+ employees
Employ Commission	Accounting Directive & Non-Financial Reporting Directive (NFRD) <sup>1</sup>	No specific disclosure requirements <sup>1</sup>		rements <sup>1</sup>	<b>Mandatory</b> in all EU Member States for public interest entities (PIEs)* with 500+ employees
* * * * * * * * * * * * * * * * * * *	Corporate Sustainability Reporting Directive (CSRD)	<b>/</b>	<b>✓</b>	<b>✓</b>	<b>Mandatory</b> for undertaking in scope of NFRD plus entities with 250+ employees and all listed companies
Engan Consider	Capital Requirements Regulation (CRR) & Capital Requirements Directive (CRD)	<b>/</b>	<b>/</b>	<b>/</b>	<b>Mandatory</b> for large FIs with issued securities on an EU market

<sup>&</sup>lt;sup>1</sup> Does NOT impose detailed disclosure requirements; GHG accounting and reporting, for instance, is NOT required. Allows for non-disclosure of information if this is made transparent and reasons are given.

<sup>\*</sup> Public interest entities (PIEs), i.e. entities established in the EU whose securities are admitted to trading on an EU regulated market, as well as licensed credit institutions and insurance companies having their registered office in the EU and entities designated by a Member State as such





## Many regulations and legislations already require GHG accounting and reporting (2/2)

REGULATIONS		REPORTING REQUIREMENT			VOLUNTARY/ MANDATORY
		SCOPE 1	SCOPE 2	SCOPE 3	VOLUNTART/ WANDATORT
	Securities and Exchange Commission (SEC) Proposed Rule on the Enhancement and Standardization of Climate-Related Disclosures for Investors	<b>✓</b>	<b>✓</b>	Specific requirements <sup>1</sup>	<b>Mandatory</b> for domestic and foreign registrants in the US
TCI	Task Force on Climate-related Financial Disclosures (TCFD)	<b>✓</b>	<b>✓</b>	<b>/</b>	Voluntary but part of regulatory framework in multiple countries
<b>8</b>	International Sustainability Standards Board on Climate Disclosure	<b>/</b>	<b>/</b>	<b>✓</b>	Voluntary

PCAF enables financial institutions to comply with these regulations and legislations by providing a standardized methodology to measure and report financed emissions.

<sup>&</sup>lt;sup>1</sup> Only required if scope 3 emissions are either material to the company or if the company has set a scope 3 emission targets











### Measuring and disclosing financed emissions furthers climate-related business goals and aligns with other initiatives

#### **Business Goal 1**

Create transparency for stakeholders

#### **Business Goal 2**

Manage climate-related transitions risks

#### **Business Goal 3**

Develop climate-friendly financial products

#### **Business Goal 4**

Align financial flows with the Paris Agreement

#### MEASUREMENT OF FINANCED EMISSIONS











## PCAF supports CDP in creating transparency for stakeholders

Business Goal 1
Create
transparency
for stakeholders

Manage climaterelated transition risks Develop climatefriendly financial products Align financial flows with the Paris Agreement



#### Aim of the business goal:

Create transparency for stakeholders



#### Activities to achieve the goal:

Disclose financed emissions, along with a breakdown of these emissions by asset class, sector, and geography



#### Main organization:

CDP helps organizations disclose their environmental impact



### Using PCAF to calculate financed emissions to enable a successful completion of the CDP Questionnaire



Snapshot of the CDP questionnaire from 2020; please refer to CDP for any updates



Financed emissions are a key metric to understand climate-related transition risks as per the TCFD

Create transparency for stakeholders

Business Goal 2 Manage climaterelated transition risks

Develop climatefriendly financial products Align financial flows with the Paris Agreement



#### Aim of the business goal:

Understand and manage climate-related transition risks



#### **Activities to achieve the goal:**

Measure financed emissions and as a result of financed emissions assessments, financial institutions can identify GHG-intensive hotspots that could be subject to higher transition risk





TCFD provides a framework to measure and disclose the transition risks posed to organizations by climate-related policies and regulations



TCFD officially recommends that banks, asset owners and asset managers measure and disclose financed emissions in line with the PCAF Standard





Financed emissions inform climate strategies to develop products that support the transition toward net-zero

Create transparency for stakeholders

Manage climaterelated transition risks Business Goal 3
Develop climatefriendly financial
products

Align financial flows with the Paris Agreement



#### Aim of the business goal:

develop climate-friendly financial products



#### Activities to achieve the goal:

Measuring financed emissions helps financial institutions understand whether their climate-friendly products are having the desired effect on their portfolio emissions

#### **Examples**:



Special mortgage to improve the energy efficiency of houses

A dedicated financial product with a lower interest to customers that renovate their homes and aim to improve energy efficiency (B, A, A+)

### Funding and affordable financing for clean vehicles

Providing grants and affordable financing to help income-qualified citizens purchase or lease a new or used hybrid or electric vehicle

### Green loan to fund green energy and sustainability projects

Enabling clients to fund projects with a positive climate impact or that help reduce climate impact. Including harnessing and storing solar and wind energy, or upgrading to eco-friendly machinery

#### Commercial real estate tools to improve buildings energy efficiency

Enabling real estate clients to increase the energy efficiency of buildings and associated carbon emissions. Using a sustainable investment tool, the financial institutions can assess the assets and recommend improvement measures along with special financing offerings





Measuring financed emissions sets the baseline for science based targets using the SBTi's methodologies

Create transparency for stakeholders

Manage climaterelated transition risks Develop climatefriendly financial products Business Goal 4
Align financial flows
with the Paris
Agreement



#### Aim of the business goal:

Align financial flows with the Paris Agreement



#### Activities to achieve the goal:

Measuring financed emissions is necessary to establish a baseline from which sciencebased emission reduction targets can be set



#### Main organization:

Science Based Targets Initiative (SBTi)





Net-zero emissions by 2050

#### **Net-zero/ Paris alignment commitments**

 The percentage of a portfolio with net-zero commitments is a measure of total portfolio alignment

#### **Benchmark-divergence models**

- Measure present-day performance and forward-looking forecasts of counterparty emissions against a reference pathway drawn from a climate scenario
- One example is temperature warming metrics where the 'temperature' of a portfolio is estimated and compared with a Paris benchmark of 1.5 °C









## Emissions are attributed to financial institutions based on robust and consistent accounting rules

FINANCED EMISSIONS

$$= \sum_{i} \frac{Investment_{i}}{Investee \ equity_{i} + Investee \ debt_{i}} \qquad \text{x} \qquad \begin{array}{c} Emissions \ of \ investee_{i} \\ \text{(with } i = investee) \end{array}$$

#### **Attribution Factor**

- The attribution factor is used to show the FI's share of the borrow or investee's emissions
- A borrower or investee is a general term and could represent a company, property, project or motor vehicle (asset class dependent)





## Emissions are attributed to financial institutions based on robust and consistent accounting rules

FINANCED EMISSIONS

$$= \sum_{i} \frac{Investment_{i}}{Investee \ equity_{i} + Investee \ debt_{i}} \qquad \text{x} \qquad \begin{array}{c} Emissions \ of \ investee_{i} \\ \text{(with } i = investee) \end{array}$$

Reported emissions<sub>i</sub>

Physical activity-based emissions<sub>i</sub>

Economic activity-based emissions<sub>i</sub>

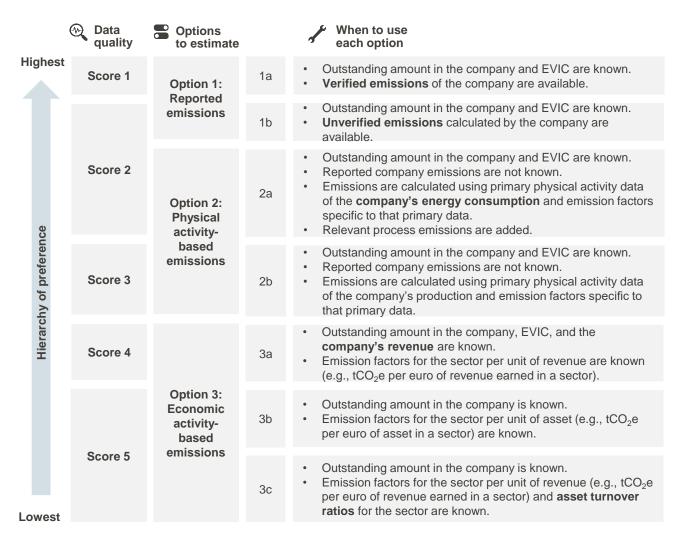
ny of preference



# Reporting recommendations and requirements: Data and data quality

- FIs shall use the most recent or otherwise appropriate data available to them.
- FIs should provide a description of the types and sources of data used to calculate emissions. Descriptions should be written to create transparency.
- The data hierarchy tables provided in each asset class method in Chapter 5 should be used as a guide for disclosing data quality.
   Financial institutions should explain how data quality is assessed, acknowledging that it will improve over time.

## GENERAL DESCRIPTION OF THE DATA QUALITY SCORE TABLE FOR BUSINESS LOANS AND UNLISTED EQUITY





### PCAF and CDP align data quality systems to support standardization

#### PCAF AND CDP PAPER PUBLICATION

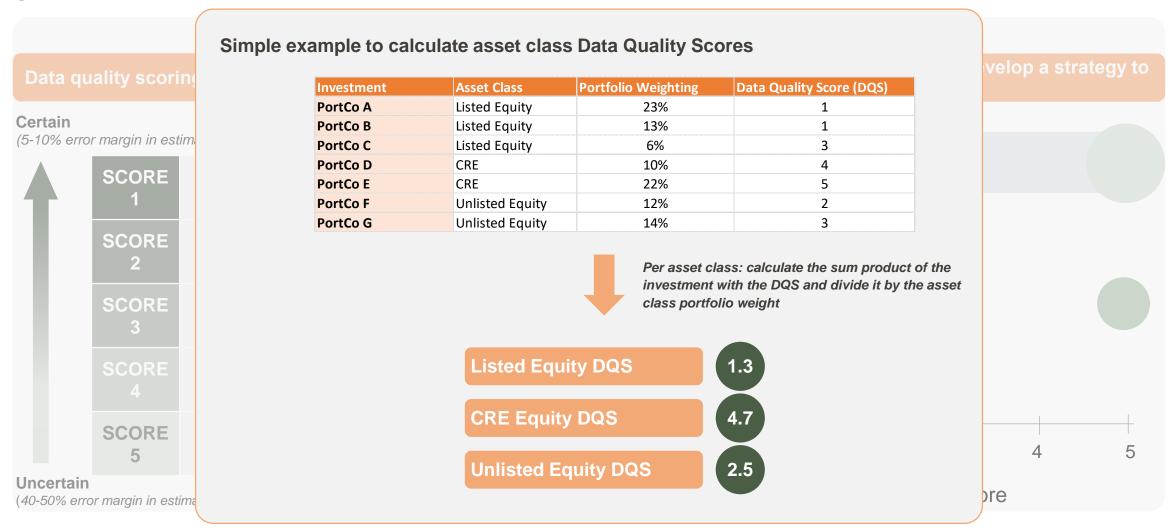
- PCAF and CDP have co-authored a paper examining the importance of data quality as part of a wider initiative to align their data quality scores.
- The paper examines the challenge posed by a lack of standardization in data quality scoring, which has a significant impact on the progress to decarbonization.
- The continued collaboration aims to align their respective data quality systems to simplify and streamline the measurement and disclosure of financed emissions.



Download the PCAF CDP paper here



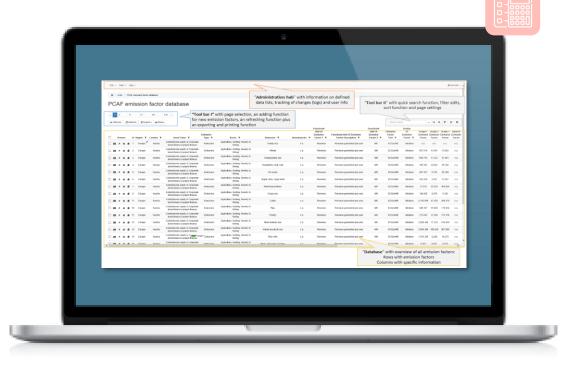
## The Standard addresses data quality issues and advises on which data can give the most robust results for each asset class





### PCAF's open-source database enables financial institutions to start with GHG accounting at asset class level

- Directly based on the PCAF methods to kick-start assessment of financed emissions
- Hotspot the most emissions intensive parts attributed to the bank or investor



Available for PCAF signatories



Set of publicly available emission factors across geographies and asset classes





Includes data quality score card

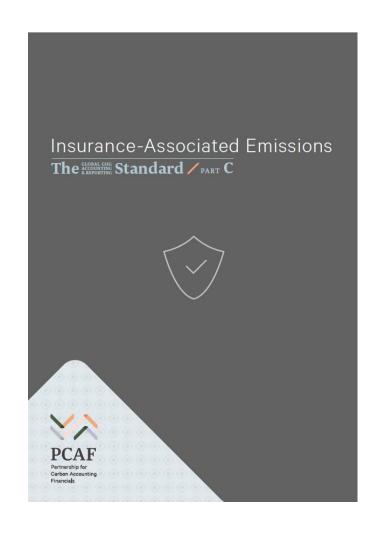












## Update on PCAF Insurance-Associated Emissions

THE FIRST VERSION OF THE PCAF STANDARD INCLUDES THE FOLLOWING SEGMENTS:





A detailed table highlights which LoBs within commercial lines are covered by the Standard

The Standard was published on 16th November 2022





### Part C: Insurance-Associated Emissions – two LoBs



Personal motor lines

#### **COMMERCIAL LINES**

PERSONAL MOTOR LINES

Re/insurance premium; - X Emissions Customer revenue;

(Industry) Attribution factor<sub>p</sub> =

Insurance industry's total premium from the motor line of business

X Vehicle emissions Total costs associated with vehicle ownership of

all vehicles

or (for cases where risk carriers are unable to use the industry attribution factor above)

(Individual) Attribution factor <sub>p</sub> =

Insurance specific premium from the motor line of business

Total costs associated with vehicle ownership of the portfolio P vehicles

- X Vehicle emissions





### Personal motor lines

#### Total cost of ownership

PCAF uses the concept of «total cost of ownership» to determine the attribution of motor vehicle emissions. Five main elements make up the total coast of ownership, along with a sixth category for other items:

- Vehicle depreciation costs
- Fuel costs
- Insurance premiums<sup>1</sup>
- Maintenance
- Registration/taxes
- Other Parking, tolls, etc.

<sup>1</sup> Re/insurance premium is defined as gross written premium (the total amount to be paid by the insured to the re/insurer for the policy written in the period) minus external acquisition cost (e.g., agent feed).

- In markets where risk carriers are unable to use the PCAF provided total cost of ownership attribution factor, re/insurers are able to follow the methodology below to calculate their own attribution factor value based on the total cost of ownership approach. They will provide PCAF with details of sources used for the calculation. They should use the guidance from the <a href="PCAF Standard Part C: Insurance-Associated Emissions">PCAF Standard Part C: Insurance-Associated Emissions</a> to calculate an (Individual) Attribution factor. These national attribution factors could also be calculated by respective insurance associations.
- For guidance on how to calculate the (Individual) Attribution factor please consult the sub-chapter «Methodology for re/insurer calculation of total cost of ownership attribution factor» on pages 45 and 46 in the PCAF Standard Part C: Insurance-Associated Emissions.





### Following segments/LoBs are covered or not covered\*

LoB	COVERED IN	LoB	COVERED IN
Property (e.g., fire, multi peril)	5.2 Emissions associated with commercial lines	Other/Special lines (e.g., Financial Lines)	5.2 Emissions associated with commercial lines
Liability/Casualty (e.g., General Liability, Product Liability)	5.2 Emissions associated with commercial lines	Statutory lines of businesses	5.2 Emissions associated with commercial lines
Commercial motor (all lines)	5.2 Emissions associated with commercial lines		
Marine (liability and hull)	5.2 Emissions associated with commercial lines	Structured trade credit (insurance of credit risk for bank loans, etc.)	Out of scope
Aviation (liability and hull)	5.2 Emissions associated with commercial lines	Surety	Out of scope
Agriculture (excl. government schemes)	5.2 Emissions associated with commercial lines	Engineering lines: Construction all-risk, erection all-risk only	Out of scope
Trade credit (insurance of credit risk for sold goods)	5.2 Emissions associated with commercial lines	Corporate life and pensions, personal accident	Out of scope
All other engineering lines (e.g., machinery breakdown)	5.2 Emissions associated with commercial lines	Public entities	Out of scope

<sup>\*</sup> See footnotes on page 30 of the <u>PCAF Standard Part C: Insurance-Associated Emissions</u> for more details.





### The PCAF Insurance-Associated Emissions Working Group

FINANCIAL INSTITUTION	HEADQUARTERS	FINANCIAL INSTITUTION	HEADQUARTERS
Allianz	Germany	Munich Re	Germany
Aviva	United Kingdom	NN Group	Netherlands
AXA	France	QBE	Australia
Bradesco Seguros	Brazil	SCOR	France
Generali	Italy	SOMPO	Japan
ICEA Lion	Kenya	Swiss Re	Switzerland
Liberty Mutual	United States of America	Tokio Marine	Japan
Lloyd's	United Kingdom	Zurich	Switzerland









## Financial institutions join PCAF to contribute to transparency and harmonization, as well as to prepare for the future

#### WHY JOIN PCAF?



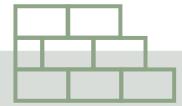
#### **TRANSPARENCY**

- Interact with data providers and clients to understand data quality and approaches used
- Manage stakeholders that increasingly demand transparency



#### **HARMONIZATION**

 Measure consistently to have a better understanding of portfolios climate impact and climate risks



#### **GROUNDWORK**

- Manage risks, steer on emissions reduction goals and take action based on transparent and harmonized emissions accounting
- Prepare for regulation





### Joining PCAF also brings multiple additional benefits



#### NETWORK EXPANSION

- Investors, banks and experts globally
- Link to SBTi-FIs, UNEP FI's NZAOA, NZBA, GFANZ, TCFD and CDP



### DECISION-MAKING AUTHORITY

- The Global GHG
   Accounting and
   Reporting Standard
   (when joining the PCAF
   core team)
- Local-tailored guides
- Best practices



### LEADERSHIP RECOGNITION

- Global and regional events on climate finance
- Social media via PCAF marketing channels



#### TECHNICAL SUPPORT

- Workshops and trainings
- Technical guides and case studies







### Thank you.

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